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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/584,359	06/23/2006	Masaki Inoue	4265-0071WOUS	3372
35301 7590 08/06/2008 MCCORMICK, PAULDING & HUBER LLP CITY PLACE II			EXAMINER	
			JOHNSON, MATTHEW A	
185 ASYLUM STREET HARTFORD, CT 06103			ART UNIT	PAPER NUMBER
			MAIL DATE	DELIVERY MODE
			08/06/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/584,359	INOUE ET AL.
Office Action Summary	Examiner	Art Unit
	MATTHEW JOHNSON	3682
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tind will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 17 ≤ 2a) This action is <b>FINAL</b> . 2b) This 3) Since this application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-5 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	awn from consideration. or election requirement. er.	
10) ☐ The drawing(s) filed on is/are: a) ☐ acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the E	e drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat*  * See the attached detailed Office action for a list.	nts have been received. Its have been received in Applicat Pority documents have been receive Tau (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

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#### **DETAILED ACTION**

# **Continued Prosecution Application**

The request filed on 7/17/2008 for continued examination (RCE) is accepted and a RCE has been established. An action on the RCE follows.

### Claim Objections

1. Claim 5 is objected to because of the following informalities: in claim 5 line 10, the phrase "which in disposed" should read -- which is disposed --.

Appropriate correction is required.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this
 Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-5, are rejected under 35 U.S.C. 102(b) as being anticipated by Katsumi et al. (JP 09-190225).

Re clm 1: Katsumi discloses a linear actuator comprising:

- A shaft (13) having a male thread portion (12)
- A worm gear speed reducer (7, Fig. 5) for reducing rotation of a motor (6) in speed and transmitting the rotation to the shaft (see English Abstract)

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A female thread member (14) which is threadedly engaged with the male thread portion (Fig. 9) and which moves forward and backward with respect to a housing (10)

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A position detection apparatus (51) which is disposed in parallel to the shaft (Fig. 7) and allows detection of a position of the moving cylinder in the housing to be adjusted (see English Abstract)

Re clm 2: Katsumi further discloses the position detection apparatus comprises a potentiosensor (51, 54) which converts the rotation amount of the shaft into a voltage value (Fig. 18), and the position detection apparatus is movably provided on the housing (see English Abstract, Figs. 16 and 17).

Re clm 3: Katsumi further discloses a driven gear (46) is mounted on a sensor shaft (44) of the potentiosensor, the driven gear is meshed with a pinion (49) which rotates in unison with the shaft (via 42), and the potentiosensor can move in an axial direction of the moving cylinder (English Abstract).

Re clm 4: Katsumi further discloses the potentiosensor can slide in the axial direction of the moving cylinder (English Abstract).

Re clm 5: Katsumi discloses a linear actuator comprising:

- A shaft (13) having a male thread portion (12)
- A worm gear speed reducer (7, Fig. 5) for reducing rotation of a motor (6) in speed and transmitting the rotation to the shaft (see English Abstract)

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A female thread member (14) which is threadedly engaged with the male thread portion (Fig. 9) and which moves forward and backward by normal or reverse rotation of the shaft

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- ➤ A moving cylinder (15) which is fixed to the female thread member and which moves forward and backward with respect to a housing (10)
- A position detection apparatus (54, 51) which is disposed in parallel to the shaft (Fig. 7) and detects a position of the moving cylinder (see English Abstract)
- Wherein the mounting of the position detection apparatus allows the position of the moving cylinder detected by the position detection apparatus to be adjusted in the housing (English Abstract)

#### Response to Arguments

4. Applicant's arguments with respect to claims 1- 5 have been considered but are most in view of the new ground(s) of rejection.

### Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. USP-4,931,710 discloses a position detecting apparatus (68) that is movable in an axial direction (collar 78, Fig. 4) of a housing for the purpose of calibrating the sensor during a mounting operation (C3 L26-56). USP-6,078,249 discloses a position detection apparatus (24) that can be automatically

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adjusted upon resetting of the device in order to improve accuracy (C1 L48-55, C4 L45-47).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MATTHEW JOHNSON whose telephone number is (571)272-7944. The examiner can normally be reached on Monday - Friday 8:30a.m. - 5:00p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Ridley can be reached on 571-272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Richard WL Ridley/ Supervisory Patent Examiner, Art Unit 3682